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		MC	NTHLY PR	OJECT REPO	RT		
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OC-E					-1-30	April 1959	
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PROJECT NUMBER	PRIO	RITY CLASS		PRIM. RESPO	SIBILITY	PROJECT ENGINEER	
E-5010		ľ		E	28		
PROJECT TITLE						ar ya en 🌡 ya en nagangan ayan ayan ayan ayan ayan ayan	
Receiving A	ntenna Mul	ticouple	F , 5				
PROJECT REQUIREMENT To provide: multicouple:		luirement	s the bea	t possible	e receiving	antenna	
To monitor if any of t	the commen	rcial and	military provided	developm	ents in the	field to determent to warrant	nine
replacing t	hose now	sed in O	Crequire	ments.	<u>-</u> .		
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APPROVAL DATE	APPROVED. B				STARTING DAT	E COMPLETION	DATE
1 March 1956		/WAB/ JJK/			1 June	1956 April 1	050
REMARKS							1. J. J
NEWAUN							
State of the state					<u> </u>		
During t	his report	ing peri	od, the		KM-1 (CU	565 ()/U)	

During this reporting period, the KM-1 (CU 565 ()/U) has been added to the Office of Communications Equipment Standards list, and procurement has been initiated. These units will cost \$1250 each and delivery is expected to begin in December of 1959. With this actions project E-5010 is completed.

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			MON	THLY PR	OJECT REP	ORT ,	•	
ORIGINATOR	s)			BUDGE	Γ EST.	REPORT	ING PERIO	OD
OC-E			FY	AM	OUNT	_		
				AC.	TION	1 A	pril -	30 April 1959
FUTURE		X ACTIVE		COMPLE		CANCELLED		SUSPENDED
PROJECT NUM	BER	PRIOR!	TY CLASS		PRIM. RESPO	NSIBILITY	PROJE	CT ENGINEER
B-50	20		I		FES			
PROJECT TIT	L.F.							
		Modific	ation Wor	rk Ordei	rs			
PROJECT REQ	UIREMENT		***************************************		<u> </u>			
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		necessary c Work Orders on and forw	. UDUMIN	เลกกหาง	RI ANN AA	~~1+~~15~~	etters Dete	for all rmine category
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			JJK /	/s/ /s/		R Bahan		
REMARKS	- Maria and American State of the Control of the Co					8 Febru	ary >>	
	prepare	ot Diplex Tr nt Conversion d and is bei	ing compos	sed for	to Mode	l "C", Mark and public	II" he ation.	as been
MWO #30	Frequen	cation of To f the HT-4 To cy Range," we e known.	ransmitte	er When	Operating	ァ ひうせわしゅ チル	a 18 20	the Perfor-) mcs. Extended equired compon-
MWO #5	TEATING	lation of R- on each Audi ed and all a	.o rrequer	icy Cari	in P771; eier Trans	5-A Adapter smitter.	Plug f A compo	or External onent error was

FORM 1543

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PIGINATOR(S) OC-E/OC-O+T	Buo	GET EST. _F	Y. MOUNT	REPORTING	PERIOD ril 1959
FUTURE	2 ACTIVE	пс	OMPLETED [CANCELLED	□ SUSPENDED
ROJECT NUMBER E-5021	PRIORIT	Y CLASS	PRIM. RSPN.	PROJECT ENG	INEER
POJECT TITLE DF Development	and Rentone	ment Dear	en eta en la companya de la company La companya de la com	e and or effects along the second	- and state of the
To provide	standard DF	equipmen	ts of the follow	ing types to	meet Agency
To provide requirements: DF. (d) Close ROJECT DESCRIPTION	(a) Semi-Fi range, body	type HF,	F. (b) Portable	HF, DF. (c)	Portable VHF,
requirements: DF. (d) Close ROJECT DESCRIPTION Investigat Campile a repospecification gation be unfr	(a) Semi-Fi range, body te military,F ort on the la and recommen ruitful, prep	type HF, II CC, and extest deve	F. (b) Portable DF. commercial development, includints for standard fications for the	pments in the ng cost, avai	Portable VHF, field of DF. lability and uld the investi
To provide requirements: DF. (d) Close ROJECT DESCRIPTION Investigat Compile a repospecification gation be unfr	(a) Semi-Fi range, body te military,F ort on the la and recommen ruitful, prep	type HF, III CC, and extest deve	F. (b) Portable DF. commercial development, includints for standard	pments in the ng cost, avai	Portable VHF, field of DF. lability and uld the investi
To provide requirements: DF. (d) Close ROJECT DESCRIPTION Investigat Compile a repospecification gation be unfr	(a) Semi-Fi range, body te military,F ort on the la and recommen ruitful, prep	type HF, III CC, and extest deve	F. (b) Portable DF. commercial development, includints for standard fications for the	pments in the ng cost, avai	Portable VHF, field of DF. lability and uld the investi
To provide requirements: DF. (d) Close ROJECT DESCRIPTION Investigat Compile a repospecification gation be unfr	(a) Semi-Fi range, body te military,F ort on the la and recommen ruitful, prep	type HF, III CC, and extest deve	F. (b) Portable DF. commercial development, includints for standard fications for the	pments in the ng cost, avaidation. Show development quirements.	Portable VHF, field of DF. lability and uld the investi

with NSA to visit the installation on 15 May for an operational

demonstration.

			MO	NTHLY	PROJECT	REPOR	r			
ORIGINATOR(S)				BUI	DGET EST.		`	REPORTING	G PERIOD	
OC -E			FY	A CONTRACTOR OF THE CONTRACTOR	AMOUNT		. •	1 Apri	11 - 30) April 1959
	-				ACTION			<u> </u>		
FUTURE	x	ACTIVE		COM	APLETED		CAN	CELLED		SUSPENDED
PROJECT NUMBER		PRIORIT	Y CLASS		PRIM.	RESPONSI	BILI	ΤΥ	PROJECT	T ENGINEER
E-5037			II			FES				
PROJECT TITLE	B. Mare of Breeze									

Technical Bulletins

PROJECT REQUIREMENT

To keep the field supplied with current technical information pertinent to general operation.

PROJECT DESCRIPTION

Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letter, arrange approval and coordination, and forward to appropriate areas.

- 1				
1	APPROVAL DATE	APPROVED BY	STARTING DATE	COMPLETION DATE
		AJW /s/		
		JJK /s/	2 February '56	
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1	REMARKS			

Field Handbook Numbers were assigned to all Technical Bulletins and this information was forwarded to all Areas and Divisions.

The following Technical Bulletins have been published and distribution to all required recipients has been completed:

- TB #25 "Performance and Design of Sloping Vee Antennas"
- TB #28 "Field Alignment of Collins 51-J Receiver using 100 kc. Oscillator as a Signal Generator"

Technical Bulletin #27, "Extending Electron Tube Life with Tube Shields" will be published when manufacturer's details (now on request) are received.

FORM 1543

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ORIGINATOR(S)				BUD	GET EST.	REPORTIN	C PERIOD
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FUTURE	X	ACTIVE		COMP	LETED	CANCELLED	SUSPENDED
PROJECT NUMBER		PRIORITY	CLASS		PRIM. RESPO		PROJECT ENGINEER
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PROJECT TITLE				TO THE PERSON OF			
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R	r-4 Tr	ansmitte:	r Repac	kaging			

PROJECT REQUIREMENT

Improve the reliability and operation features of the RT-4 Transmitter and package it with a Portable Master Oscillator in a rack for base station use.

PROJECT DESCRIPTION

The RT-4 Transmitter was originally made for small station intermittent use. Operational use has revealed some technical discrepancies and the transmitter has been placed "on the shelf." This project will be to correct these discrepancies and to mount the transmitter and PMO in the 46 inch rack for base station use. The task of redesign will be given to a consulting firm. A second firm will be given the task of compiling test data on a number of RT-4 Transmitters currently undergoing blower modification. This data will then be given to the first consulting firm.

APPROVAL DATE	APPROVED BY	STARTING BATE	COMPLETION DATE
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28 February 1956	/ MAD/		
co represent 1970	/ .T.TK /	1 March 1956	i
DEMARKS			time of the second of the second

A review of the evaluation reports which have been received indicates that the repackaged transmitter has met with general acceptance, the consensus of opinion being that the RT-4A seems to have corrected all of the serious faults and most of the minor problems found in the original (RT-4). Ease of operation, "built-in" PMO, frequency stability, and expressed preference for the RT-4A over the HT-4 are typical of the favorable comments. Adverse comment included such minor items as location of the test key, time delay feature in series with door interlocks, and errors in the instruction manual.

In order to determine a basis for proceeding effectively on this project, a memorandum has been sent to the Telecommunications, Training, and Techniques Staff of CC requesting guidance as to present and future requirements for the RT-4A.

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T CLIUNE	X 40	TIVE	□ Co	мецетел	\Box	Cantilles	10	11112
E-5053		PRIJEITY I	CLASS	PRIM. PSP EES	*	Pangut Ex	्रे इ.स. इ.स.	· · · · ·
PROJECT TITLE			Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1.			
		URT-11	Power Su	pply Arcing	s			

and corrective measures for this problem.

Product Description

Preliminary investigation has indicated this arcing-over is not caused by

Preliminary investigation has indicated this arcing-over is not caused by insufficient voltage ratings of the components. It may be caused by a resonance. The problem will be turned over to a consulting firm for investigation and recommendations. Corrective measures for eliminating this problem will be distributed as a Modification Work Order.

APPROVAL DATE	APPROVED WAB /s/ ST/	ARTING DATE :	COMPLETION . Same
15 September 1955	JJK /8/ 2	20 September 1955	

The first relay selected for switching of the transient eliminating exhibited a tendency to vary in pull-in time. Under some conditions the pull-in time was so quick that the swamping resistors were removed prior to the formation of the high voltage switching transcient, thereby negating the effect of the swamping circuit. A replacement relay with the proper pull-in time characteristics has been ordered and will be given a series of life tests during the next reporting period.

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(When Filled In)

GINATOR(S)			BUDGET	EST.	REPORTIN	G PERIOD
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OC-P					1	- 30 April 1959
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OJECT NUMBER		DRITY CLASS	.4 4	PRIM. RESI	PONSIBILITY	PROJECT ENGINEER
E-5060		т			SDS	
OJECT TITLE		· · · · · · · · · · · · · · · · · · ·				4
Strat	egic Reser	ve Program	1			
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To proceed to the convenient operations ROJECT DESCRIPTION To proceed transports	locations luse in the	throughouse event of materackage rad	t the words an emer	rld for rgency. 2, 5, 1 ons with	immediate ins	tallation and 1 20 position 20 position 20 plan layouts
convenient operations ROJECT DESCRIPTION To pr transports	locations luse in the	throughouse event of materackage rad	t the words an emer	rld for rgency. 2, 5, 1 ons with	immediate inst	tallation and 20 position or plan layouts utilization.
To proposed to the convenient operations ROJECT DESCRIPTION To proposed transports and stands	l use in the ovide billions ovide billions ovide billions of the type part wiring of the part of the part over the	throughouse event of materackage rad	t the words an emer	rld for rgency. 2, 5, 1 ons with a effici	immediate inst	d 20 position or plan layouts utilization.

A memo from OC-P was received requesting OC-E to investigate the availability, cost, and procurement lead time of prefabricated shelters suitable for use with the packaged positions.

This information was compiled and forwarded.

The priority of other projects has prevented further work on other phases of the project.

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			ROJECT REPO	OR T		
ORIGINATOR(S)	E	BUDGET EST. FY	_	REPOR	TING PERIO	00
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PROJECT NUMBER	PRIOR	ITY CLASS	PRIM. RSPN.	PROJEC	T ENGINEER	₹
E-5071		I	SDS			Š
PROJECT TITLE	iny-Tot	Electro-Magne	etic Radiatio	n Reductio	n	
PROJECT REQUIREMENT				44 - 44 - 44 - 4		·
Reduction of	the radi	o-magnetic re	adiation to a	maximum o	f 3 feet.	
PROJECT DESCRIPTION						<u> </u>
to the normal field recordings to be me and combinations of	ade on a	n oscilliscor	u masking ele De for compare	ector-magne ative reduc	etic field ction by i	d. Radiation individual
APPROVAL DATE	APPROVE	o /WAB/	STARTING DA	TE.	COMPLETI	ON DATE
29 October 1956		/JJK/	_ 29 October	1956		
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E-5078 PROJECT TITLE		1	l spa				is a partie with the same.
	Transsitter	/Receiver Ar	itenna Dyst	ems.			
PROJECT REQUIREMEN	ī				Miller sa militarer - usangkendah plantani va sang apan		ann an raidheach - an deirinn ann an ann ann an an a
		nas ere inac					ments and
the antenna syst	tema must b	e revised fo	or the pres	ent com	aunicatior	paths.	
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		nne system s	sith smitab	le dire	ctional ch	aracteri	stics
for frequencies							
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October 1956		- 11	Octo	ber 190	<u> </u>		arramentales de la quilité d'antière départation de
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		MONTHLY P	ROJECT REPORT	•	
ORIGINATOR(S)		BUDGET EST. FY.		REPORTING	PERIOD
OC-E			TNUC	1 - 30	April 1959
C FUTURE	ACTIVE	D Cos	APLETED []	CANCELLED	SUSPENDED
PHOJECT NUMBER E-5085	PRI	ORITY CLASS.	PRIM. RSPN. SDS	PROJECT EN	GINEER
PROJECT TITLE		er han self fin de de Margarit fin de de la proposition par la proposition de la final de la proposition de la	1	<u> </u>	-pot-
Communicatio	ns Systems 1	Planning for Ne	w Headquarters	Building	
equipment th	rmine the to at will be a Agency common		cations systems stallation in the categories in the categories and the categories are also seen as a second		
equipment. Operations, Building Pla building. T	To meet regularing Engineering Staff to prepare a	llarly with rep , and Security to discuss com list of the eq	Divisions, and munications req	the Messag the OC memb uirements f ll be requi	e Center Staff, er of the New
PPROVAL DATE	APPRO	VED WAB /s/	STARTING DATE	Co	MPLETION DATE
January 195	7		January 19	57	eneromentale rational annual repair relatings were collected and products (i.e., i.e., i.e., i.e.,
A mama-	andum was re	ceived from OC	-T setting fort	h a require	ent for a
microwave 11:	ilding, Wash	ington. D. C.	g at Langley, V A study, inclu system to sati	irginia, and	the
be made to de	ilding, Wash	ington. D. C.	g at Langley, V A study, inclu	irginia, and	the
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ORTGINATORYS)	BUDGET I	Est. FY.	REPO	RTING PERIOD
, oc-oat		AMOUNT	1-30) April 1959
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PROJECT NUMBER	PRIORITY CL.	ASS PRIM. R	SPN. PROJE	OT ENGINEER
E-5089	I	EES		
PROJECT TITLE	·			
	Selective Calli	ing Systems		
PROJECT REQUIREMENT				
systems with suc	ate and compile h information as	a listing of a	ll types of s	elective calling nical, and physical
characteristics,	and cost.			
To select b recommend one of			aluations, if	necessary, and
If approved	, to implement]	procurement and	installation	
APPROVAL DATE	APPROVED WAB	/s/ START	NG DATE	COMPLETION DATE
December 1956	JJK	/s/ Janu	ary 1957	

During this reporting period, it was decided that all immediate base to sub-base selective calling requirements would be filled with Motorola Selcal Equipment. This decision was based upon the following:

- A) Commercially available system
- B) Short delivery time, 5 to 6 weeks
- C) Operationally proven, FAA Approved.
- D) Competitive price, \$550 per encoder, \$325 per decoder.

Investigation of an A-1 calling system has been suspended pending G further OC-T investigation of the need for such a system!

	М	ONTHLY P	ROJECT REPO	RT			
CRIGINATOP(S)				REPORT	PORTING PERIOD		
OC-E/OC-O+T		AMOUNT		1-30	1-30 April 1959		
☐ FUTURE Č	ACTIVE	□ Con	APLETED .	CANCELL	E0 🔲	SUSPENDED	
PROJECT NUMBER E-5102	PRIORITY		PRIM. RSPN.	PROJECT	ENGINEER	25X1A9a	
PROJECT TITLE Voice Link for	6-st	or white the programmer of the second		од ден од	. Zem - m typu emission militarini haus stat dell'idell' 1 vis dell.		
on suggestions PROJECT DESCRIPTION	from operati		transmitter			25X1A2d1	
Design and house a voice I and receiver voice a. Pow b. Be c. Wor	install in the ink capable ins. The linger output an portable or the into the part int	of provid: k should he range as work in coresent MU	have the follopproximately on junction will antenna sys	tion between tion between the MUX ling the MUX ling the an extremen or proven the months of the mont	n the tran ilities: k. portable ide a sepa	smitter unit.	
published for	he rework of	the resa					
	Approved	/WAB/		, or work sales from the fact of the control of the	COMPLETION	DATE	

An interstage low pass filter, with cut-off at 1,000 cps (UTC Model LMI-1000) has been requisitioned for installation in the VHF MUX Audio Circuit to prevent abrupt changes in signal level from appearing at the modulator as high audio frequency signals. Procurement of the item will require from 30 to 60 days, due to the fact that it is not a stock item and must be obtained from a commercial source.

(When Filled In) MONTHLY PROJECT REPORT REPORTING PERSOD BUDGET EST. OR (GINATORIS) AMOUNT 1 - 30 April 1959 OC-E ACTION SUSPENDED COMPLETED FUTURE PRIM. RESPONSIBILITY PRIORITY CLASS PROJECT NUMBER SDS I E-5103 escifet Title Multiplex System for Base Station to Sub-Base Stations Communications PROJECT REQUIREMENT To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion. PROJECT BESCRIPTION Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications. APPROVED BY PPECVAL DATE /8/ SS May 1957

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An investigation will be made into single sideband multiplex systems which are currently available for utilization on the communications high frequencies. This project will be reported upon during the next reporting period.

SEMARKS

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ORIGINATOR(S)					DGET EST.	NEI ON					
			FY	900	AMOUNT		REPO	RTING PER	1 OD		
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E-5105			I			EES		1			
PROJECT TITLE		4		-						a	
HT-4 Excit	er Mod	ificati:	an				-				
		La de Com Com.	31L								-
PROJECT REQUIREMENT											
Some of the between 18	e HT-4 and 30	transm:) megacj	itters ycles t	do not to driv	have su	ufficie wer an	ent out	out from to fu	m the	e excit utput.	er
PROJECT DESCRIPTION The excite its output kept as si this probl to the pro	r circuin the sple as em if s	itry wie 18 to possib	ill be 30 meg ble. A mal hel	invest: sacycle n outs: lp is ne	igated trange. ide conseded. ts will	to find Any c sulting When t	method	to fulls of increase any bear droited to the second	ncreasy to calle	asing will be	n
PROJECT DESCRIPTION The excite its output kept as si this probl	r circuin the sple as em if s	itry wie 18 to possib	ill be 30 meg ble. A mal hel	invest: sacycle n outs: lp is ne	igated trange. ide conseded. ts will	to find Any c sulting When t	method	to fulls of increase any bear droited to the second	ncreasy to calle	asing will be	n
PROJECT DESCRIPTION The excite its output kept as si this probl to the pro	r circuin the sple as em if s	itry wie 18 to possib	ill be 30 meg ble. A mal hel	invest: sacycle n outs: lp is ne	igated trange. ide conseded. ts will	to find Any c sulting When t	method	to fulls of increase any bear droited to the second	ncreasy to calle	asing will be	n
PROJECT DESCRIPTION The excite its output kept as si this probl to the pro	r circuin the mple as em if s per levication	itry wie 18 to possib	ill be 30 meg ble. A mal hel	invest: sacycle n outs: lp is ne	igated trange. ide conseded. ts will	to find Any c sulting When t be mad	method changes firm make exemine the	is of incessing be dister drive	ncreacy are in the interest of	asing will be ed in o	n eased nction
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Modification Work Order Number 30 (Optional) is complete except for the assignment of a stock number to the modification kit.

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	ORIGINATOR(S)		BUDGET EST.	REPORT	ING PERIOD
	OC-E	FY	AMOUNT		3 00 4 13 2000
	00 11		ACTION		1 - 30 April 1959
	FUTURE	X ACTIVE	COMPLETED	CANCELLED	SUSPENDED
	PROJECT NUMBER	PRIORITY CLASS	PRIM. RESI	PONSIBILITY	PROJECT ENGINEER
	E-5117	I		SDS	
	PROJECT TITLE	25X1A6a		808	
X1C4a	PROJECT REQUIREMENT		25X1A6	a	heir Space Requirements
5X1C4a	and constru facilities PROJECT DESCRIPTION	in	s necessary for	the installa	e the power, space, tion of communications
25X1C	\$ 4 -	roject is for the pu with Communica in the Americas Are lled	retaine redations	eering of ne	w radio stations 25X1A6a
	_				
	December 1958	APPROVED BY GBG /s JJK /s		December	
	were suggested	ard position was viol.	ewed by OC-AD pe	ersonnel and	minor changes
X1A6a	Phase A:	- No action on the	his station.		
X1A6a	PHASE B:	Inactive per	nding installati	lon.	# 1
5X1A6		- Teletype v	wiring diagrams orting period.	were dispate	hed to this
X1A6a	*	- Transmitters a being procured by M	and antenna equi	pment for th	e new installation
X1A6a		- Transmitters being procured by M	and antenna equ	ipment for t	he new station
X1A6a		- Drawings showing prepared for	air conditionin	g and door l	ocations have
5X1A6		- The Prostation installation	oject Engineer i	s leaving on	TDY to complete

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ORIGINATOR(S)		BUDGET EST.	Y. MOUNT	1	vg PERIOD pr11 1959
] FUTURE	≇ D ACTIVE	С	OMPLETED	CANCELLE	
PROJECT NUMBER	PRI	ORITY CLASS	PRIM. RSPN.	ţ	
	esent Conv	verter field	and Evaluation	of Diversity	Reception System
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Review vectorial shift Conversity of Project Descript Prepare being product 17%	mat is cur y suitable rter. To det resption sy 10N a comparis med, such se	replacement : termine the a retems for po- son chart of as the Westre determine wh	for the Norther Avantages or di ssible Agency	rn 107 Model Isadvantages application. Shift Conter A, Hoffman C t suitable u	of space/frequence ters currently V-116, Northern nit to meet
economically Shift Convention of the convention	mat is cur y suitable rter. To det resption sy 10N a comparis med, such se	replacement : termine the a retems for po- son chart of as the Westre determine wh	for the Norther Avantages or di ssible Agency all Frequency (x 50-B, TMC CF) ich is the most	rn 107 Model Isadvantages application. Shift Conter A, Hoffman C t suitable u	of space/frequency of space/frequency ters currently V-116, Northern nit to meet

The contractor has completed testing of all convertors with the exception of the Model 50-B. Since the delay in delivery of the 50-B has been encountered, the contractor is proceeding with the reduction of accumulated data toward a final report.

Latest information indicates that the second 50-B converter with its associated line keyer will be delivered on 15 May 1959.

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Approved For Release 2000/09/114-GIA-RDP78-02820A000500020038-3 (When Filled In) MONTHLY PROJECT REPORT REPORTING PERIOD BUDGET EST. ORIGINATOR(S) AMOUNT D/CO 1-30 April 1959 ACTION SUSPENDED CANCELLED X ACTIVE COMPLETED PROJECT ENGINEER PRIM. RESPONSIBILITY PRIORITY CLASS PROJECT NUMBER B-5121 EES Ι PROJECT TITLE KY-1 Voice Operated Relay PROJECT REQUIREMENT Investigate the feasibility of installing a voice operated relay in the KY-1. PROJECT DESCRIPTION A voice operated relay will be fabricated at the R + D Lab and will be given an evaluation on a KY-1 link between the office of the 25X1A6a NSA will be queried to find what work they have done along this line. COMPLETION DATE STARTING DATE APPROVED BY APPROVAL DATE GBG 5X1A9a January 1959 January 1959 JJK. REMARKS No reply has been received from the NSA engineers regarding what, if anything can be done to shorten the time delay experienced between the time the push-to-talk button is depressed and the time the KY-1 is ready to pass intelligence. A memorandum will be forwarded to NSA in an effort to expedite their investigation. Further progress on this project is dependent upon a favorable

reply from NSA.

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		INTHLY PROJECT REPORT		 Service des des particularies de appreciair de la proposition della pro
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S. S. W. Ch.	ESTORIO CLASS	1.1.新文縣 (1.1.新新文獻) 1.1.		THE FULL ENGINEER
4-51.23	. T	SEC		

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To investigate and test various types of multicouplers, vertical antennas with associated tuning networks, both remotely operated and passive, and to determine the type multicoupler and antennas best suited to meet the applicable requirements.

April 1958 /JJK/ April 1958

Delivery of the Further activity on this project will be delayed pending receipt of

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ORIGINATOR(S)		NTHLY PROJECT F			
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	ACTIVE			1 - 30 Apri	
PROJECT NUMBER	PRIORITY	_		ECT ENGINES	
E-5126	I	SDS			
PROJECT TITLE					
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to brostate eng.	THESTING SUPPO	10 101 110,000			
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and the prepara		estimates, bills o	of materials	and all	
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	APPROVED		_	COMPLET	ION PATE
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PROJECT NUMBER	PRI	IORITY C		PRIM. RS		PROJECT			
E-5131 PROJECT TITLE		I		EES					
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to increase the from stock and will culminate	THE DEW D	arts an	d seal 1	7171 ha 118				•	
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PPROVAL DATE July 1958	APPROV	VED (STARTING July 1			COMPLE	TION [PATE
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Approved For Release 2000/09/11; CIA-RDP78-02820A000500020038-3

Coperating Positions for New Agent Transmission Systems PROJECT REQUIREMENT Incorporate necessary components into base station operating positions. PROJECT DESCRIPTION Design base station operating positions that will include equipment that will be needed to receive and translate high speed and/or other new forms of agent communication signals. APPROVAL DATE APPROVE APPROVE STARTING BATE COMPLETION DATE		MONT	THLY PROJECT REPORT			
Supplement Active Competed Cancelled Suspended	OFIGINATOR(S)			REPORTING PERI	OD .	
PROJECT NUMBER E-5132 I SDS PROJECT NUMBER E-5132 I Operating Positions for New Agent Transmission Systems PROJECT NUMBER Theory of the second of the second operating positions and the second operating positions. PROJECT NUMBER NO. Design base station operating positions that will include equipment that will be needed to receive and translate high speed and/or other new forms of agent communication signals. APPROVE GBG February 1959 JIK The AS-3 receiving position will require modification to make it compatible with A study is being made to determine the feasibility of modifying the AS-3 receiving equipment for receiving F-1 as well as A-1 modes of trans-	OC-E	FY	AMOUNT	1 - 30	April 1959	
Operating Positions for New Agent Transmission Systems FROJECT REQUIREMENT Incorporate necessary components into base station operating positions. PROJECT REQUIREMENT Incorporate necessary components into base station operating positions. Design base station operating positions that will include equipment that will be needed to receive and translate high speed and/or other new forms of agent communication signals. APPRILYAL DATE GBG February 1959 JJK The AS-3 receiving position will require modification to make it compatible with agent transmissions. A study is being made to determine the feasibility of modifying the AS-3 receiving equipment for receiving F-1 as well as A-1 modes of trans-	A second control of the second control of th		COMPLETED	CANCELLED PRO	SUSPENDED	
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The AS-3 receiving position will require modification to make it compatible with agent transmissions. A study is being made to determine the feasibility of modifying the AS-3 receiving equipment for receiving F-1 as well as A-1 modes of trans-	APPREVA. DATE		5	TARTING DATE	COMPLETION DATE	25X1A
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1 compatible with agent transmissions. A study is being made to determine the feasibility of modifying the AS-3 receiving equipment for receiving F-l as well as A-l modes of trans-		*		a. 		**************************************
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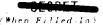
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•		MONTHLY PROJECT REPO	RT	
ORIGINATOR(5)		BUDGET	REPORTING PERIOD	No. Mic ristraction and
00-0+m 58- 7 66	FY	AMOUNT	1-30 April 1959	
		ACTION		
FUTURE	ACTIVE	COMPLETED	CANDELLI	
PROJECT NUMBER	PRIORITY CLA	ASS PRIM. RESPON	SIBILITY PROJECT ENGINEER	
E-5135	I	FE S		
PROJECT TITLE			no company company company company company of the company comp	
//odern	ization of CP-4	Control Tanel		
PROJECT REQUIREMENT				
Redesi	go the CT-4 Contr	col Panel and fabricat	e 100 units.	
PROJECT DESCRIPTION				
rebuil possib	d from the start, le and practical,	control panel as a mo using miniaturizatio incorporating featur from previous models	n techniques wherever	
APPROVAL CATE	APPROVED BY		STARTING DATE COMPLETION TATE	
July 1958	/s/ Jen		July 1958	
P(MARK)			A service of the serv	

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A bid was received from a manufacturer for the fabrication of five CP-5 Control Panels. The price quoted is \$308 is per unit for the prototypes. It has been requested that the same manufacturer quote a price for the fabrication of 50 to 100 units. They have agreed to supply this information.

The requirement for an R.F. monitor oscillator has been cancelled. Instead, a transistorized side tone oscillator will be designed and fabricated in a vector plug in unit. This unit will plug into the octal socket provided in the CP-5 chassis. The necessary controls will be brought out to the CP-5 front panel.



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	M	ONTHLY PROJECT	REPORT	
OC-S	; Y	BUDGET FAT.	* : :	April 1959
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Programme NUMBER	PRIORITY CLASS	PRIM	PESPONSIBILITY	PROJECT ENGINEER
E-5136	I		EES	
Assist TollTEE				;
Maximum	Cryptographic Part A	larm (MACPAL)		
-				
CK 1993 REQUIREMENT			** **	
pre-deter	n alarm for the TSEC mined number of grou	ps have been t	yped.	pperator when a
The MACPA or 335 gr	L should be an incan oups and which will	descent lamp w continue to bu	hich will light rn until the co	at 90 groups ounter is re-set.
		Walter Control		
CIP VAL SATE	APPROVE BY		1 - 1 N H - 1 N L - 1 - A	TE JOMPLETTINE LANCE
July 19 5 8	/GBG/		- July 1	958
	/JUK/			

The contract for the fabrication of five AL-1 units was awarded. The successful bidder has been provided all necessary specifications, design information, and drawings. One KL-7 unit has been delivered to facilitate the design of the microswitch mounting bracket and for final testing of the AL-1.

The manufacturer estimates 90 days for delivery of the five units.

ende gebruik en som de de de kreise in der en de som de en de	MONTHLY	PROJECT RE	PORT	Mindespectrolists frame. An has the filter in production in a filter production and the second secon
ORIGINATOR(S)	BUDGET EST.	FY.	REPORTING	PERIOD
OC -E		AMOUNT	1 - 30 Ap	ril 1959
D FUTURE B AC	TIVE D	COMPLETED	☐ CANCELLED	Suspended
PROJECT NUMBER	PRIORITY CLASS	PRIM. RSP	PROJECT ENG	INEER
E-5137	I	EES		sake skinger blyvnighter – Breaf Helmiss se ener, skill
PROJECT TITLE				
c	caxial Output Ne	twork for the	231-D Transmitte	er
PROJECT REQUIREMENT	rende a gang anggangan an ang anggan dan sarang dan di Palitan Balan na anggan dan Balan na dan distribution d		teen felicite televisi tilleri og i tilvelly og en kilder og en gelegene og en en gelegene en en en en en en e En	igaanistatiinattavastavatta toi tantuurin attan tartaatuu, vattaa reantuu eta nen ruuruu ruuruu vuon viiron k
A coaxial output required for the 231-D		dent of the e	xisting unbalance	d output is
PROJECT DESCRIPTION	Annania properties and a process of the Period Miles (1999). The Miles (1999) and the Company of			a ang managan an ang mga ang taon ng mang ang tao na ang man ang mga tao kalanasi at a sa managa (a) 1960 man
The output circui suitable network, with to accommodate coaxial balanced 600 ohm line fication kit with inst	provisions for a fittings. The feed) of this tra	metering, wil existing outp ansmitter wil	l be designed and uts (i.e., unbala	fabricated nced and
APPROVAL DATE	\PPRO VED	STARTING	DATE COM	PLETION DATE
ธเน ็ โy 1958		July	1958	

Requests for bids for the fabrication of KM-4s are being distributed by Logistics. The requests are asking for 30 day delivery on the first unit and 60 days delivery for the balance after acceptance of the first unit.

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		PROJECT REPO	RT		
ORIGINATOR(S)	BUDGET EST.FY	ſ.	REPORT	ING PERIOD	
CSD 8-517	\$	TOUNT	1-30	April 1959)_:
TEUTURE AC	TIVE C	MPLETED	CANCELL:	ED 🗆 S	SUSPENDED
PROJECT NUMBER E-5138	PRIORITY CLASS	PRIM. RSPN.	Parameter	R	vin
PROJECT TITLE		EES		-Product	
	Teletype Clear	Text Alarm			
will provide a disable and/or visual alarm s	WARE CITCUIT FOR TO	ne linon data	a-t-t		_
ROJECT DESCRIPTION					**************************************
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These contacts can be Text Alarm device wil	they are operated used to control to	by the space,	C, I, T, a	nd E pull 1	bars.
are available that ar can be added so that These contacts can be Text Alarm device will power supply. PROVAL DATE As	they are operated used to control to	by the space,	C, I, T, a Alarm devi ated and co	nd E pull 1	bars. Lear own
These contacts can be Text Alarm device wil power supply.	they are operated used to control to be either relay	by the space, the Clear Text or diode opers	C, I, T, a Alarm devi ited and co	nd E pull 1 ce. The Contain its o	bars. Lear own
These contacts can be Text Alarm device will power supply. PROVAL DATE August 1958	they are operated used to control to be either relay	STARTING DA	C, I, T, a Alarm devi ated and co	nd E pull Toce. The Contain its	bars. lear own

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PROJECT NUMBER	P	RIORITY	CLASS	PRIM.	RSPN.						
E-5139						1					
PROJECT TITLE Investigation of	Possib	ility of	Increas	sing the S	Speed of	Telety	pe St	aff (Comm	mice	tions
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DAALEST DESHIBEM	FN I										
		n waliah	le tran	smission (speed of	Agency	tele	ty pe	sta:	ff	77
		n reliab	le tran	smission (speed of	Agency	tele	type	sta:	ff	Record Annual Control of the Control
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To determine the circuits. When the PROJECT DESCRIPT Engineer to operation of the circuits of the circuits and circuits	maximum sing cor ion high s	peed rad m at spe	io tele	type commute 300 wp	unication over	on system ionos	m and pheri ift m	c ps	alua th.	te th Con- timis	ed
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During this reporting period, plans have been formulated for a field trip to determine the maximum reliable transmission speed of teletype circuits when using conventional FSK techniques.

Tentative plans are, during May, 1959, tests will be conducted between a transmitting site located at a and a mobile receiving facility located in the vicinity of Vincennes, Indiana, a path length of approximately 500 miles. Conventional frequency shift keying will be utilized, and a Teletype Corporation High Speed Tape System, modified for operation as speeds of 300,240, and 180 words per minute, will be used as terminal equipment.

The receiving wan of a partially "stripped" 6ST has been drawn from stock, and is being outfitted with appropriate test and experimental equipment to serve as the receiver site. Personnel of IMB and SEB are cooperating in the effort to make the unit, including its tractor, ready for the trip.

Preliminary tests of a modification to the electronic circuitry of the High Speed Tape System to reduce its operating speed from the rated 600 WPM to our testing speeds have indicated no problem in this respect. Changes in the motor-to-drive shift gear ratio of the tape reader will enable the insertion of data at the proper rates.

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	E ACTIVE	COMPLETED	CANCELLED	SUSPENDED
PROJECT NUMBER	PRIORITY CLA	the state of the s	PROJECT ENGI	NEER
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PROJECT TITLE	31-D Fre-Emphasis	and Speech Clippin	ng Modification	
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	eseembly will th	en be installed an	d tested on a 23	1-D trans-
aftter at	Anno markanta anta anta anta anta anta anta anta		ist Militari Bilitari	
If test re	sults are favorab	le, additional ass	emblies will be	purchased
	A reservation of the same	LAAMAN NANAGESTY		
and sent to the	field wherever d	leemed necessary.		
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PROJECT	ITLE	L Electronic Pow	ee Samoly		
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Work continues at a satisfactory rate on the dual electronic power supply. Full load and over load tests of the engineering model have been conducted with excellent results, indicating that an effective circuit design has been realised. Fabrication of the prototype will begin as soon as the contractor completes all necessary tests required to determine compliance with all specifications.

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Voice Frequency Carrier Telegraph Systems

APPROVED BY

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PROJECT REQUIREMENT To improve the operation of our present voice frequency carrier (VFC) investigate the feasibility of modifying this telegraph system equipment to provide 100 wpm operation and select a new "standard"100 wpm VFC

Improve reliability of present Microwave and VHF MUX systems, particularly in respect to VFC channel frequency stability, for 60 wpm operation.

Investigate the possibility of adapting, by modification or substitution of components, present VFC equipment for 100 wpm teletype operation. Investigate commercial developments in the field of VFC telegraph systems to provide 12 or more 100 wpm teletype channels in a single voice frequency spectrum of 400 to 3,000 cps.

Make appropriate recommendations to OC based on results of above investigations.

ISTARTING DATE

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An investigation has been made of the commercial developments in the field of VFC telegraph systems.

Transistorized telegraph systems are being manufactured by Northern Radio, Lenkurt, and Tele-Signal. While all three systems are considered high quality, the Tele-Signal equipment has several features not found in the Northern or Lenkurt equipment. Some of these features are 1) self-contained power supply in each unit, 2) speeds up to 2500 WPM, 3) plug-in frequency determining network, 4) all adjustments on front panel and 5) proven reliability. The price of a twelve channel simplex system is approximately \$5000. This is considerably less than competitive systems.

25X1A6b Four channels of Tele-Signal equipment have been requisitioned/ equipment will be evaluated by EES and later shipped to

Estimates have been received from for modification kits to increase the operating speeds to 100 WPM and to increase reliability of our 25X1A5a1 presently installed Multiplex equipment.

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COMPL-TION DATE

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Y PROJECT REPORT
REPORTING PERIOD
1-30 April 1959
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These Estimates were for:

100	Channels	\$413 6	
200	Channels	\$348 e	
400	Channels	\$316 e	ach
600	Channels	\$298 e	ach
1000	Channels	\$284 e	ach

These prices seem excessively high in comparison to new equipment designed to operate at 100 WPM.

Upon receipt of test equipment now on order preliminary examinations will be made to determine if operation of present equipment can be improved at a lower cost per channel.

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Approved For Release 2000/09/11: CIA-RDP78-02820Appoppion260Na LA

MONTHLY PROJECT REPORT ROJECT NUMBER PRIM. RSPN. REPOSTING PERIOD E-5174 FES 1 - 30 April 1959 25X1A6b

25X1A6a 25X1A6a 1. A request was sent to OL-RE&CD for selection of equipment to meet dehumidification requirements of the warehouse in the Readquarters building. Engineering will procure and ship the specified equipment for installation by the contractor. A memorandum to the file was prepared.

25X1A6d

2. At a meeting held with Communications Officer it was learned that construction of the building will not be started by 31 May as anticipated in the field. Architechural drawings still require completion and proval before contractual services can be solicited.

25X1C4a

25X1A6a

A 30 kw diesel-generator was requisitioned and notification of delivery to the field in July was sent. Installation drawings were also forwarded.

25X1A6b

25X1A6b

Preliminary details on the La Port tandem rhombic antenna were sent as requested. 25X1A2d2

Twelve corrected with ; records.

drawings were sent for inclusion

25X1

25X1A2d2

Semi-annual Engineering reporting forms were sent to all areas.

25X1A6b

Approved For Release 2000/09/11 : GIA-RDP78-02820A000500020038-3

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Bids were received on the transmitters and antenna coupler from and was selected as meeting all specifications. Their bids were:

Antenna Coupler \$ 1,070

Medium Wave Broadcast Transmitter \$ 4,735

Short Wave Broadcast Transmitter \$ 6,361

Variable Frequency Oscillator \$ 1,047

X1A9a

X1A5a1

A rough estimate on cost of a portable Butler building with flooring and a wood foundation is \$1,500.

A complete portable station including transmitter, building, generator, and other equipment would cost approximately \$25,000.

25X1A

25X1A

Approved For Release 2000/09/11 : CIA-RDP78-02820A00050002093855

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During this reporting period the station was presented to various interested members of OC Staffs. Both favorable comments and constructure criticism was received. From these comments and suggestions certain changes in the position were generated. These consist chiefly of equipment location and represent no major changes in the basic position.

The specifications for the position are being written and will be completed in the near future. The contractor for the prototype, is presently engaged in producing the drawings and should be finished by approximately 6 May.

It is planned to ship the prototype to for installation at the new during June 1959.

25X1A5

25X1A

25X1A6

25X1C4a

25X1A6a